

1 1. A substantially pure DNA encoding a naturally-
2 occurring platelet activation polypeptide, said polypeptide
3 comprising a sequence at least 70% identical to SEQ ID NO:1.

1 2. A substantially pure DNA encoding a polypeptide
2 comprising an amino acid sequence identical to at least 95%
3 of SEQ ID NO:4.

1 3. The DNA of claim 2, wherein said DNA comprises
2 the sequence of SEQ ID NO:3.

1 4. A substantially pure DNA comprising a strand of
2 at least 20 nucleotides which hybridizes at high stringency
3 to a DNA complementary to the coding sequence of SEQ ID
4 NO:3.

1 5. The DNA of claim 2, wherein said DNA hybridizes
2 at high stringency to a DNA probe consisting of a sequence
3 of 50 nucleotides complementary to the coding sequence of
4 SEQ ID NO:3.

1 6. A vector comprising the DNA of claim 2.

1 7. The DNA of claim 2, wherein said DNA is operably
2 linked to regulatory sequences for expression of said
3 polypeptide, said regulatory sequences comprising a
4 promoter.

1 8. A cell comprising the DNA of claim 7.

1 9. A substantially pure polypeptide comprising a
2 sequence identical to at least 95% of SEQ ID NO:4.

1 10. The polypeptide of claim 9, said polypeptide
2 comprising the amino acid sequence encoded by SEQ ID NO:3.

1 11. An antibody which specifically binds to the
2 polypeptide of claim 9.

1 12. The antibody of claim 11, wherein said antibody
2 binds to the same epitope as MAb 3B2.

1 13. The antibody of claim 11, wherein said antibody
2 is linked to a detectable label.

1 14. A method of detecting an activated platelet in
2 a biological sample, comprising contacting said sample with
3 the antibody of claim 11 and determining whether said
4 antibody binds to a component of said sample, said binding
5 being an indication that said sample contains an activated
6 platelet.

1 15. A method of localizing a platelet thrombus in
2 an animal, comprising administering to said animal the
3 antibody of claim 13, and determining where in said animal
4 said label localizes, wherein detection of said label at a
5 site in said animal indicates the existence of a platelet
6 thrombus at said site.

1 16. A method of targeting a compound to an
2 activated platelet in an animal, comprising administering to
3 said animal a composition comprising said compound linked to
4 the antibody of claim 11.

1 17. The method of claim 16, wherein said compound
2 is an antithrombotic agent, a thrombolytic agent, an anti-
3 proliferative agent, or an anti-migration agent.

1 18. A polypeptide comprising an antigenic fragment
2 of the polypeptide of claim 9.

1 19. A substantially pure polypeptide having the
2 sequence of a naturally-occurring platelet activation
3 polypeptide that comprises an epitope which binds to MAb
4 3B2.

1 20. A method of detecting an activated platelet
2 protein complex in a biological sample, comprising
3 contacting said sample with the antibody of claim 11 and
4 determining whether said antibody binds to a component of
5 said sample having a molecular weight of approximately
6 145 kDa under non-reducing conditions.

1 21. A substantially pure activated platelet complex
2 (APCOM) comprising a polypeptide which binds to the antibody
3 of claim 11.